Organtul Maruli (1971)

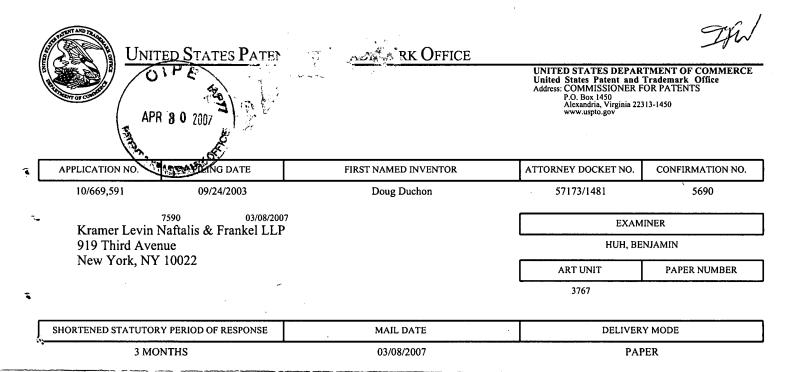
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

;	Application No.	Applicant(s)	
	10/669,591	DUCHON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Benjamin Huh	3767	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet	with the correspondence add	fress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) M . cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this cor ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 11 D	ecember 2006.		
,,,	action is non-final.		
3) Since this application is in condition for allowar			merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 23-30 is/are pending in the application			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) 23-30 is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.	• •	
Application Papers			
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) acc			
Applicant may not request that any objection to the			D 4 494/d)
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	caminer. Note the attacr	led Office Action of form 18 18	0-102.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C	. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority document		A	
2. Certified copies of the priority document			Stago
3. Copies of the certified copies of the prio		en received in this ivational.	Stage
application from the International Bureat * See the attached detailed Office action for a list		ot received	
See the attached detailed Office action for a list	C. are coranea applean	-	
:			
: Attachment(s)			•
1) Notice of References Cited (PTO-892)		w Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		lo(s)/Mail Date of Informal Patent Application	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:		

Art Unit: 3767

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/11/06 has been entered.

Priority

The disclosure of the prior-filed application, Application No. 08/946293, fails to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. The claims of the instant application are not supported by the continuation in part of Application No. 08/946293 and therefore only obtain priority data back to the application of 08/957801 with a priority date of 10/24/1997.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Art Unit: 3767

Claims 23-30 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: the act of providing the fluid required for the refilling procedure, otherwise the device could be retracting the plunger to just provide air. Also, retracting the plunger while receiving more fluid for the subsequent rejection. Last, the communication of the fluid for refilling with the syringe.

Claim Objections

Claims 23 & 27 are objected to because of the following informalities: the claims state the use of a "predetermined limit" it is requested that the applicant clarify the term by utilizing the predetermined limit to correspond to either the amount needed for having the preset amount of fluid or as seen appropriate. Appropriate correction is required.

Claims 23 & 27 are objected to because of the following informalities: the newly inserted line "receiving a preset amount of fluid necessary for a subsequent injection from user input" can be read multiple ways, the first being that the step is physically receiving a preset amount of fluid from the user, the second being the step of data being input into the device to determine a preset amount of fluid necessary for the subsequent injection. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 3767

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 23-25 & 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Rosenberg et al (Us Patent No. 4596575). Rosenberg et al discloses an injection device which automatically refills a syringe, the method comprising sensing a volume of fluid in a chamber of the syringe, receiving a preset amount of fluid necessary for a subsequent injection from user input, wherein this step the preset amount of fluid is seen to be an actual amount of fluid from a separate source being provided from a user therefore user input; comparing said volume in said chamber with said preset amount of fluid and retracting a plunger within said chamber of said syringe to a predetermined limit if said preset amount of fluid is greater than the volume of fluid sensed in said chamber, wherein predetermined limit maximally fills said chamber of said syringe, wherein the predetermined limit is less than a maximal volume of said chamber, see col. 1 line 60 – col. 2 line 5, col. 2 line 66 – col. 3 line 7, col. 5 line 65 – col. 6 line 17.

Claims 23-25 & 27-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Rubinstein (US Patent No. 3888239). Rubinstein discloses an injection device which automatically refills a syringe, the method comprising sensing a volume of fluid in a chamber of the syringe, receiving a preset amount of fluid necessary for a subsequent injection from user input, wherein this step the preset amount of fluid is seen to be an actual amount of fluid from a separate source being provided from a user therefore user

Art Unit: 3767

input;; comparing said volume in said chamber with said preset amount of fluid and retracting a plunger within said chamber of said syringe to a predetermined limit if said preset amount of fluid is greater than the volume of fluid sensed in said chamber, wherein predetermined limit maximally fills said chamber of said syringe, wherein the predetermined limit is less than a maximal volume of said chamber, see col. 2 line 57 – col. 3 line 7 and col. 6 line 5 – 59.

Claims 23-27 & 29-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Degironimo et al (US Patent No. 4502488). Degironimo discloses an injection device which automatically refills a syringe, the method comprising sensing a volume of fluid in a chamber of the syringe, receiving a preset amount of fluid necessary for a subsequent injection from user input; comparing said volume in said chamber with said preset amount of fluid and retracting a plunger within said chamber of said syringe to a predetermined limit if said preset amount of fluid is greater than the volume of fluid sensed in said chamber, wherein predetermined limit maximally fills said chamber of said syringe, wherein the predetermined limit is less than a maximal volume of said chamber, and wherein the preset amount of fluid can be changed, see col. 2 line 10-15 & lines 39-54.

With respect to claim 26, wherein the reference discloses the step of purging air bubbles, see col. 5 line 66 – col. 6 line 7.

Art Unit: 3767

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over. Rosenberg et al (Us Patent No. 4596575) or Rubinstein (US Patent No. 3888239) in view of Reinicke (US Patent No. 4684365). Even though Rosenberg or Rubinstein do not explicitly state the step of purging air from the chamber of the syringe attention is directed to Reinicke. The Reinicke reference teaches the step of purging air from the chamber of the syringe col. 7 line 47-51. Therefore, it would be obvious to one of ordinary skill in the art at the time of the invention to incorporate the air purging step of Reinicke into the method of Rosenberg or Rubinstein in order to provide a safer device and to allow for a faster refill.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Degironimo et al (US Patent No. 4502488) as applied to claim 23 and further in view of
Rubinstein (US Patent No. 3888239). Now even though Degironimo does not explicitly
disclose the injection of radiographic contrast material attention is directed to
Rubinstein. The Rubenstein reference teaches the use of an injector that is capable of
injecting multiple different materials including that of delivering contrast material in order

Art Unit: 3767

to perform angiographic procedures. Therefore, it would be obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Rubinstein by utilizing the injector of Degironimo to deliver any fluid necessary for the procedure.

Response to Arguments

Applicant's arguments filed 12/11/06 have been fully considered but they are not persuasive.

Applicant argues that the references do not disclose receiving a preset amount of fluid necessary for a subsequent rejection from user input, the examiner disagrees. Due to the broad wording of the claims the term user input of the preset amount of fluid is seen to be a physical action of providing fluid which is indeed done in the references, it is suggested that the applicant amend the claims to show the step of data input corresponding to the preset amount of fluid.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Huh whose telephone number is 571-272-8208. The examiner can normally be reached on M-F: 9:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on 571-272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3767

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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SUPERVISORY PATENT EXAMINER

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Notice of References Cited Application/Control No. 10/669,591 Examiner Benjamin Huh Applicant(s)/Patent Under Reexamination DUCHON ET AL. Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-4,502,488	03-1985	Degironimo et al.	600/505
	В	US-		-	
	С	US-			
	D	US-			
	Е	US-			
	F	US-			
	G	US-			
	Н	US-			
	ı	US-			
	J	US-			
	к	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	0					
	Р					
	Q					
	R					
	s					
	Т					

NON-PATENT DOCUMENTS

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*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)		
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A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.